

Gln Ile Val Arg Val Glu Pro Leu Val Thr Met Gly Gln Val Thr Ala
130 135 140

Leu Leu Thr Ser Ile Gly Trp Thr Leu Pro Val Leu Pro Glu Leu Asp
145 150 155 160

Asp Leu Thr Val Gly Gly Leu Ile Met Gly Thr Gly Ile Glu Ser Ser
165 170 175

Ser His Lys Tyr Gly Leu Phe Gln His Ile Cys Thr Ala Tyr Glu Leu
180 185 190

Val Leu Ala Asp Gly Ser Phe Val Arg Cys Thr Pro Ser Glu Asn Ser
195 200 205

Asp Leu Phe Tyr Ala Val Pro Trp Ser Cys Gly Thr Leu Gly Phe Leu
210 215 220

Val Ala Ala Glu Ile Arg Ile Ile Pro Ala Lys Lys Tyr Val Lys Leu
225 230 235 240

Arg Phe Glu Pro Val Arg Gly Leu Glu Ala Ile Cys Ala Lys Phe Thr
245 250 255

His Glu Ser Gln Arg Gln Glu Asn His Phe Val Glu Gly Leu Leu Tyr
260 265 270

Ser Leu Asp Glu Ala Val Ile Met Thr Gly Val Met Thr Asp Glu Ala
275 280 285

Glu Pro Ser Lys Leu Asn Ser Ile Gly Asn Tyr Tyr Lys Pro Trp Phe
290 295 300

Phe Lys His Val Glu Asn Tyr Leu Lys Thr Asn Arg Glu Gly Leu Glu
305 310 315 320

Tyr Ile Pro Leu Arg His Tyr Tyr His Arg His Thr Arg Ser Ile Phe
325 330 335

Trp Glu Leu Gln Asp Ile Ile Pro Phe Gly Asn Asn Pro Ile Phe Arg
340 345 350

Tyr Leu Phe Gly Trp Met Val Pro Pro Lys Ile Ser Leu Leu Lys Leu
355 360 365

Thr Gln Gly Glu Thr Leu Arg Lys Leu Tyr Glu Gln His His Val Val
370 375 380

0031754-101501

Gln Asp Met Leu Val Pro Met Lys Cys Leu Gln Gln Ala Leu His Thr
385 390 395 400

Phe Gln Asn Asp Ile His Val Tyr Pro Ile Trp Leu Cys Pro Phe Ile
405 410 415

Leu Pro Ser Gln Pro Gly Leu Val His Pro Lys Gly Asn Glu Ala Glu
420 425 430

Leu Tyr Ile Asp Ile Gly Ala Tyr Gly Glu Pro Arg Val Lys His Phe
435 440 445

Glu Ala Arg Ser Cys Met Arg Gln Leu Glu Lys Phe Val Arg Ser Val
450 455 460

His Gly Phe Gln Met Leu Tyr Ala Asp Cys Tyr Met Asn Arg Glu Glu
465 470 475 480

Phe Trp Glu Met Phe Asp Gly Ser Leu Tyr His Lys Leu Arg Glu Lys
485 490 495

Leu Gly Cys Gln Asp Ala Phe Pro Glu Val Tyr Asp Lys Ile Cys Lys
500 505 510

Ala Ala Arg His
515

<210> 2

<211> 4248

<212> DNA

<213> Homo sapiens

<400> 2

cccgggctgt gggctacagg cgcagagcgg gccaggcgcg gagctggcgg cagtgcacagg 60
aggcgcgaac ccgcagcgct taccgcggcg cgccgcacca tggagcccg cgtgtcgctg 120
gccgtgtgcg cgctgctctt cctgctgtgg gtgcgcctga aggggctgga gttcgtgctc 180
atccaccagc gctgggtggt cgtgtgcctc ttctctctgc cgctctcgct tatcttcgat 240
atctactact acgtgcgcgc ctgggtggtg ttcaagctca gcagcgctcc gcgcctgcac 300
gagcagcgcg tgcgggacat ccagaagcag gtgcgggaat ggaaggagca gggtagcaag 360
accttcatgt gcacggggcg ccctggctgg ctactgtct cactacgtgt cggaagtac 420
aagaagacac acaaaaacat catgatcaac ctgatggaca ttctggaagt ggacaccaag 480
aaacagattg tccgtgtgga gcccttggtg accatgggcc aggtgactgc cctgctgacc 540
tccattggct ggactctccc cgtgttgctt gagcttgatg acctcacagt ggggggcttg 600
atcatgggca caggcatcga gtcacatcc cacaagtacg gcctgttcca acacatctgc 660
actgcttacg agctggctct ggctgatggc agctttgtgc gatgcactcc gtccgaaaac 720

tcagacctgt	tctatgccgt	accctgggtcc	tgtggggacgc	tgggttttcct	ggtggccgct	780
gagatccgca	tcatccctgc	caagaagtac	gtcaagctgc	gtttcgagcc	agtgcggggc	840
ctggaggcta	tctgtgccaa	gttcacccac	gagtcccagc	ggcaggagaa	ccacttcgtg	900
gaagggctgc	tctactccct	ggatgaggct	gtcattatga	caggggtcat	gacagatgag	960
gcagagccca	gcaagctgaa	tagcattggc	aattactaca	agccgtgggt	ctttaagcat	1020
gtggagaact	atctgaagac	aaaccgagag	ggcctggagt	acattccctt	gagacactac	1080
taccaccgcc	acacgcgcag	catcttctgg	gagctccagg	acatcatccc	ctttggcaac	1140
aaccccatct	tccgctacct	ctttggctgg	atggtgcctc	ccaagatctc	cctcctgaag	1200
ctgaccagg	gtgagacct	gcgcaagctg	tacgagcagc	accacgtgg	gcaggacatg	1260
ctggtgccca	tgaagtgcct	gcagcaggcc	ctgcacacct	tccaaaacga	catccacgtc	1320
taccccatct	ggctgtgtcc	gttcatcctg	cccagccagc	caggcctagt	gcaccccaaa	1380
ggaaatgagg	cagagetcta	catcgacatt	ggagcatatg	gggagccgcg	tgtgaaacac	1440
tttgaagcca	ggctctgcat	gaggcagctg	gagaagtttg	tccgcagcgt	gcatggcttc	1500
cagatgctgt	atgccgactg	ctacatgaac	cgggaggagt	tctgggagat	gtttgatggc	1560
tcttgtacc	acaagctgcg	agagaagctg	ggttgccagg	acgccttccc	cgaggtgtac	1620
gacaagatct	gcaaggccgc	caggcactga	gctggagccc	gcctggagag	acagacacgt	1680
gtgagtggtc	aggcatcttc	ccttcactca	agcttggtcg	ctttcctaga	tccacacttt	1740
caaagagaaa	cccctccaga	actcccaccc	tgacagccca	acaccacctt	cctcctggct	1800
tccagggggc	agcccagtg	aatggaaa	atgtgggatt	tggagtcaga	caagcctgag	1860
tccagtcccc	cgtttagaac	tcattagctg	tgtgactctg	ggtgagtccc	ttaaccctc	1920
tgagcccggg	tctcttcatt	agttgaaagg	gatagtaata	cctacttgca	ggttggtgtc	1980
atctgagttg	agcactggtc	acattgaagg	tgctgggtaa	gtggtagctc	ttggtgcttc	2040
ccgttcagcg	tcacatctgc	agtggagcct	gaaaaggctc	cacattaggt	cacctgtgca	2100
cagccatggc	tggaatgatg	aaggggatac	gctggagttg	ccctgccatc	gcctccatca	2160
gccagacgag	gtcctcacag	gagaaggaca	gctcttcccc	accctgggat	ctcaggaggg	2220
cagccacgga	gtggggaggc	cccagatgcg	ctgtgccaaa	gccaggctcg	aggccaaagt	2280
tctccctgcc	atccttgggt	cctgctgcc	ccttctcct	tcatgcctgg	gcctgcaggc	2340
ccaccccagc	caccactgag	tccactcgga	gtgccctgtg	ttcctggaga	aggcattcca	2400
gggttgaaatc	ttgtcccagc	ctcagcctgg	gacacctagg	tggagagagt	ggtctccgct	2460
ctgaattgga	tccaggggac	ctgggctcat	tcttcttggc	tcaccaaccc	tgcaggcctc	2520
atctttccca	aaacccactt	tgtcttgggt	ggagtgggtc	cgcgctgctc	tgcagcaggg	2580
gctggggagt	ggacagcatc	aggtgggaaa	gtggagtcca	ccctcatgtt	tctgtaggat	2640
tctcaccgtg	gggctggaag	aaaagagcat	cgacttgatt	tctccaacca	ctcatccctc	2700
tttttctttc	ttccaccact	ccccaccca	gctgtagtta	atttcagtgc	cttaciaaatc	2760
ctaagctcag	agaaagtctc	atttccgctt	cagagggag	ggaacctccc	taggtccttc	2820
cctggcttgt	tataacgcaa	agcttggttg	tttatgcaac	tctatcttaa	gaactgcccc	2880
gcctcagctg	aaaacccgaa	tctgagaagg	aattgcgtca	tgtaagggaa	gctggaatta	2940
agggagctga	gccagtcag	gttgtggcgt	gtgagtcagg	agacctaggt	ttcagcccct	3000
ctctactgtc	agcgagctgt	gcaacgtggg	caagtcattg	tcctctgagc	tgcagtttcc	3060
tcatctgtca	catcgctaca	gacaagacct	ccctggaacc	cttctgattg	tcttagacac	3120
tgtggttgca	aaacccacgg	aaagcctcat	ttgtgtggaa	agtcagagga	aaaatgatcc	3180
agtggacact	tggggattat	ctgtcattca	agatccttcc	ttcaacccca	aggccagctc	3240
ccatctcatt	tccagaaagg	ctcatacctg	gcttgccagg	aagcatctgt	cttgctattc	3300
caggtgccag	aatcctctca	gagtcattga	aggggtgttc	cccatcccac	ccaaggcttg	3360
gcacactgcc	agtgtcttag	cagggctctt	tgagggtggg	gggcatccag	gcactcagaa	3420
ggcaaaggaa	ccaccctacc	catttgccct	ctggaggggg	cagaagaaag	aaagaaacct	3480
catcctatat	tttaciaaag	atgtgaattc	tggcattagc	tctcatagga	gacccatgtg	3540
cttcttgc	cagtgcacaaa	ctgatgattc	tacttgctgt	agatgaatgg	ttaacacgag	3600

ctagttaaac agtgccattg ttttgccagt gaagcctcca accctaagcc actgggacgg 3660
 tggccagaga tgccagcagc ctctgtcgcc cttagtcata taacccaaat ccagacctta 3720
 tccacaaccc ggggcttggg aaggaaggta ttttggaatc acaccctccg gttatgttgc 3780
 tccagtaaaa tcttgccctgg aaagaggcag tcttcttagc atgggtgagct gagttcatgg 3840
 cttttttttg tagccagtcc tgtccctggc catccatgtg atgggttttg atggagttaa 3900
 acttgatgcc agtgggcagt gcatgtggaa agtatcagag taagcctctc ccctccagag 3960
 ccctgagttt cttggctgca tgaaggtttt ctttagaata agaattgtag ccagtttctt 4020
 tggccagaag gatgaatact tggatattac tgaaaggag ggggtggagat ggggtgtggca 4080
 gtgtatgggtg tgtgattttt attttcttct ttgggtcatgg gggccaagga gaaaggcatg 4140
 aatcttccct gtcaggctct tacagccaca ggcactgtgt ctactgtctg gaagacatgt 4200
 ccccggtggct gtggggccgc tgcttctgtt taaataaaaag tggcctgg 4248

<210> 3

<211> 4187

<212> DNA

<213> Homo sapiens

<400> 3

ggcgcgaacc cgcagcgctt accgcgcggc gccgcacat ggagcccgc gtgtcgctgg 60
 ccgtgtgccc gctgctcttc ctgctgtggg tgcgcctgaa ggggctggag ttcgtgctca 120
 tccaccagcg ctgggtgttc gtgtgctctt tctcctgcc gctctcgctt atcttcgata 180
 tctactacta cgtgcgcgcc tgggtgggtg tcaagctcag cagcgtccg cgcctgcacg 240
 agcagcgctg gcgggacatc cagaagcagg tgcgggaatg gaaggagcag ggtagcaaga 300
 ccttcatgtg cacggggcgc cctggctggc tctactgtct actacgtgtc ggggaagtaca 360
 agaagacaca caaaaacatc atgatcaacc tgatggacat tctggaagtg gacaccaaga 420
 aacagattgt ccgtgtggag cccttgggtga ccatgggcca ggtgactgcc ctgctgacct 480
 ccattggctg gactctcccc gtgttgcttg agcttgatga cctcacagtg gggggcttga 540
 tcatgggcac aggcacagag tcatcatccc acaagtacgg cctgttccaa cacatctgca 600
 ctgcttacga gctggtcctg gctgatggca gctttgtgcg atgcactccg tccgaaaact 660
 cagacctgtt ctatgccgta ccctggtcct gtgggacgct ggggttctct gtggccgctg 720
 agatccgcat catcctgcc aagaagtacg tcaagctgcg tttcgagcca gtgccccgcc 780
 tggaggctat ctgtgccaaag ttcaccacag agtcccagcg gcaggagaac cacttcgtgg 840
 aagggtgct ctactccctg gatgaggctg tcattatgac aggggtcatg acagatgagg 900
 cagagcccag caagctgaat agcattggca attactacaa gccgtggttc ttaagcatg 960
 tggagaacta tctgaagaca aaccgagagg gcctggagta cattcccttg agacactact 1020
 accaccgcca cacgcgcagc atcttctggg agctccagga catcatcccc tttggcaaca 1080
 accccatctt ccgctacctc tttggctgga tgggtgctcc caagatctcc ctctgaagc 1140
 tgaccagggg tgagaccctg cgcaagctgt acgagcagca ccacgtgggt caggacatgc 1200
 tggtgcccat gaagtgcctg cagcaggccc tgcacacctt ccaaaacgac atccacgtct 1260
 accccatctg gctgtgtccg ttcactctgc ccagccagcc aggcctagtg caccctaaag 1320
 gaaatgaggc agagctctac atcgacattg gagcatatgg ggagcccgct gtgaaacact 1380
 ttgaagccag gtcctgcatg aggcagctgg agaagtttgt ccgcagcgtg catggcttcc 1440
 agatgctgta tgccgactgc tacatgaacc gggaggagtt ctgggagatg tttgatggct 1500
 ccttgtaaca caagctgcga gagaagctgg gttgccagga cgcttcccc gaggtgtacg 1560
 acaagatctg caaggccgcc aggcactgag ctggagcccc cctggagaga cagacacgtg 1620
 tgagtgggtca ggcactctcc cttactcaa gcttggctgc tttcctagat ccacacttcc 1680
 aaagagaaac ccctccagaa ctcccacct gacagcccaa caccacctc ctctggctt 1740

ccagggggca gccagtgga atggaaagaa tgtgggattt ggagtcagac aagcctgagt 1800
ccagttcccc gtttagaact cattagctgt gtgactctgg gtgagtcctt taacccctct 1860
gagcccggtt ctcttcatta gttgaaaggg atagtaatac ctacttgtag gttgttggtca 1920
tctgagttga gcaactggtca cattgaaggt gctgggtaag tggtagctct tgttgcttcc 1980
cgttcagcgt cacatctgca gtggagcctg aaaaggctcc acattaggct acctgtgcac 2040
agccatggct ggaatgatga aggggatacg ctggagttgc cctgccatcg cctccatcag 2100
ccagacgagg tcctcacagg agaaggacag ctcttcccca ccctgggagc tcaggagggc 2160
agccacggag tggggaggcc ccagatgcgc tgtgccaaaag ccagggtccga ggccaaagtt 2220
ctccctgcca tccttggtgc cgtcctgccc ctctctcctt catgcctggg cctgcaggcc 2280
caccacagcc accactgagt ccactcggag tgccctgtgt tcctggagaa ggcattccag 2340
ggttgaatct tgtcccagcc tcagcctggg acacctaggt ggagagagtg gtctccgctc 2400
tgaattggat ccaggggacc tgggtcatt ctctctgggt caccaaccct gcaggcctca 2460
tctttcccaa aaccacttt gtcttggtgg gagtgggtcc gcgctgctct gcagcagggg 2520
ctggggagtg gacagcatca ggtgggaaag tggagtcac cctcatgttt ctgtaggatt 2580
ctcaccgtgg ggctggaaga aaagagcatc gacttgattt ctccaaccac tcacccctct 2640
ttttctttct tccaccactc cccaccccag ctgtagttaa tttcagtgcc ttacaaatcc 2700
taagctcaga gaaagttcca tttccgttcc agaggggaagg gaacctccct aggtccttcc 2760
ctggcttggt ataacgcaa gcttggttgt ttatgcaact ctatcttaag aactgccag 2820
cctcagctga aaaccgaat ctgagaagga attgcgtcat gtaagggaag ctggaattaa 2880
gggagctgag ccagtcatgg ttgtggcgtg tgagtcagga gacctagggt tcagccctc 2940
tctactgtca gcgagctgt caacgtggg aagtcattgt cctctgagct gcagtttct 3000
catctgtcac atcgctacag acaagacctc cctggaacct ttctgattgt cttagacact 3060
gtggttgcaa aaccacgga aagcctcatt tgtgtggaaa gtcagaggaa aaatgatcca 3120
gtggacactt ggggattatc tgtcattcaa gatccttct tcaaccccaa ggccagctcc 3180
catctcattt ccagaaaggc tcatacctgg ctgagggga agcatctgtc ttgtcattcc 3240
aggtgccaga atcctctcag agtcattgaa ggggtgtcac ccatccacc caaggcttg 3300
cacactgcca gtgtcttagc agggcttgt gagggctggg ggcattccagg cactcagaag 3360
gcaaaggaac caccctaccc atttggcctc tggagggggc agaagaaaga aagaaacctc 3420
atcctatatt ttacaaagca tgtgaattct ggcattagct ctcataggag acccatgtgc 3480
ttccttgctc agtgcaaaac tgatgattct acttgctgta gatgaatggg taacacgagc 3540
tagttaaaca gtgccattgt tttgccagt aagcctccaa ccctaagcca ctgggacggg 3600
ggccagagat gccagcagcc tctgtcgccc ttagtcatat aaccaaaatc cagaccttat 3660
ccacaaccog gggcttgga aggaaggat tttggaatca caccctccgg ttatgttgct 3720
ccagtaaaat cttgcctgga aagaggcagt cttcttagca tggtagctg agttcatggc 3780
ttttttttgt agccagtcct gtccctggcc atccatgtga tggttttgga tggagttaaa 3840
cttgatgcca gtgggcagt catgtggaaa gtatcagagt aagcctctcc cctccagagc 3900
cctgagtttc ttggctgcat gaaggttttc tttagaatca gaattgtagc cagtttcttt 3960
ggccagaagg atgaatactt ggatattact gaaagggagg ggtggagatg ggtgtggcag 4020
tgtatggtgt gtgattttta tttcttctt tggcatggg ggccaaggag aaaggcatga 4080
atcttccctg tcaggctctt acagccacag gcaactgtgc tactgtctgg aagacatgtc 4140
cccgtggctg tggggccgct gcttctgttt aaataaaagt ggcttg 4187

<210> 4

<211> 4186

<212> DNA

<213> Homo sapiens

<400> 4

ggcgcgaacc cgcagcgctt accgcgcggc gccgcaccat ggagcccgcg gtgtcgctgg 60
ccgtgtgcmc gctgctcttc ctgctgtggg tgcgcctgaa ggggctggag ttcgtgctca 120
tccaccagcg ctgggtgttc gtgtgcctct tctcctgcc gctctcgctt atcttcgata 180
tctactacta cgtgcgcgcc tgggtggtgt tcaagctcag cagcgctccg cgcctgcacg 240
agcagcgcggt gcgggacatc cagaagcagg tgcgggaatg gaaggagcag ggtagcaaga 300
ccttcatgtg cacggggcgc cctggctggc tctactgtc actacgtgtc ggggaagtaca 360
agaagacaca caaaaacatc atgatcaacc tgatggacat tctggaagtg gacaccaaga 420
aacagattgt ccgtgtggag cccttggtga ccatgggcca ggtgactgcc ctgctgacct 480
ccattggctg gactctcccc gtgttgctg agcttgatga cctcacagtg gggggcttga 540
tcatgggcac aggcacagag tcatcatccc acaagtacgg cctgttccaa cacatctgca 600
ctgcttacga gctggtcctg gctgatggca gctttgtgag atgcactccg tccgaaaact 660
cagacctgtt ctatgccgta ccctggctct gtgggacgct gggtttctg gtggccgctg 720
agatccgcat catccctgcc aagaagtacg tcaagctgag tttcgagcca gtgccccg 780
tggaggtat ctgtgccaa gttcacccag agtcccagcg gcaggagaac cacttcgtgg 840
aagggtctgt ctactccctg gatgaggtg tcatatgac aggggtcatg acagatgagg 900
cagagcccag caagctgaat agcattggca attactacaa gccgtggttc ttttagcatg 960
tggagaacta tctgaagaca aaccgagagg gcctggagta cattcccttg agacactact 1020
accaccgcca cagcgcagc atcttctggg agtccagga catcatcccc tttggcaaca 1080
acccatctt ccgctacctc tttggctgga tgggtgcctcc caagatctcc ctctgaagc 1140
tgaccagggt tgagacctg cgcaagtgt cgagcagcac cacgtggtgc aggacatgct 1200
ggtgcccatt aagtgcctgc agcaggccct gcacacctc caaaacgaca tccacgtcta 1260
ccccatctg ctgtgtccgt tcatcctgcc cagccagcca ggcctagtgc accccaaagg 1320
aaatgaggca gagctctaca tgcacattgg agcatatggg gagccgctg tgaaacactt 1380
tgaagccagg tcttgcattg ggcagctgga gaagtttgtc cgcagcgtgc atggcttcca 1440
gatgctgtat gccgactgct acatgaaccg ggaggagtgc tgggagatgt ttgatggctc 1500
cttgtaccac aagctgcgag agaagctggg ttgccaggac gccttccccg aggtgtacga 1560
caagatctgc aaggccgcca ggcactgagc tggagccgc ctggagagac agacacgtgt 1620
gagtggctag gcatcttccc ttdactcaag cttggtgct ttcctagatc cacactttca 1680
aagagaaacc cctccagaac tcccaccctg acagcccaac accaccttcc tctggcttc 1740
cagggggcag cccagtggaa tggaaagaat gtgggatttg gagtccagca agcctgagtc 1800
cagttccccg tttagaactc attagctgtg tgactctggg tgagtccctt aacctctg 1860
agcccgggtc tcttcattag ttgaaaggga tagtaatacc tacttgagg ttgttgcatt 1920
ctgagttgag cactggtcac attgaagggt ctgggtaagt ggtagctctt gttgcttccc 1980
gttcagcgtc acatctgcag tggagcctga aaaggctcca cattaggtca cctgtgcaca 2040
gccatggctg gaatgatgaa ggggatacgc tggagttgcc ctgccatgc ctccatcagc 2100
cagacgaggt cctcacagga gaaggacagc tcttccccac cctgggatct caggagggca 2160
gccacggagt ggggaggccc cagatgcgct gtgccaaagc cagggtccgag gccaaagttc 2220
tccctgccat ccttggtgcc gtccctcccc ttcctccttc atgcctgggc ctgcaggccc 2280
acccagcca cactgagtc cactcgaggt gccctgtgtt cctggagaag gcattccagg 2340
gttgaatctt gtcccagcct cagcctggga cacctagggt gagagagtgg tctccgctct 2400
gaattggatc caggggacct gggctcattc ttcttggtc accaaccctg caggcctcat 2460
ctttccaaa accactttg tcttggtggg agtgggtccg cgtgctctg cagcaggggc 2520
tggggagtgg acagcatcag gtgggaaagt ggagtccacc ctcatgtttc tgtaggattc 2580
tcaccgtggg gctggaagaa aagagcatcg acttgatttc tccaaccact catccctctt 2640
tttctttctt ccaccactcc ccaccccagc tgtagttaat ttcagtgcct taaaaatcct 2700
aagctcagag aaagtcccat ttccgttcca gaggggaagg aacctcccta ggctcttccc 2760
tggcttgta taacgaaaag cttggttggt tatgcaactc tatcttaaga actgcccagc 2820

ctcagctgaa	aacccgaatc	tgagaaggaa	ttgcgtcatg	taagggaagc	tggaattaag	2880
ggagctgagc	cagtcattggt	tgtggcgtgt	gagtcaggag	acctagggtt	cagccccctc	2940
ctactgtcag	cgagctgtgc	aacgtgggca	agtcattgtc	ctctgagctg	cagtttcctc	3000
atctgtcaca	tcgtacaga	caagacctcc	ctggaaccct	tctgattgtc	ttagacaetg	3060
tggttgcaaa	accacaggaa	agcctcattt	gtgtggaaag	tcagaggaaa	aatgatccag	3120
tggacacttg	gggattatct	gtcattcaag	atccttcctt	caacccaag	gccagctccc	3180
atctcatttc	cagaaaggct	catacctggc	ttgcaggga	gcatctgtct	tgctattcca	3240
ggtgccagaa	tcctctcaga	gtcattgaag	gggtttcacc	catcccaccc	aaggcttggc	3300
acactgccag	tgtcttagca	gggtcttggt	agggctgggg	gcatccaggc	actcagaagg	3360
caaaggaacc	accctaccca	tttggcctct	ggagggggca	gaagaaagaa	agaaacctca	3420
tcctatattt	tacaaagcat	gtgaattctg	gcattagctc	tcataggaga	cccatgtgct	3480
tccttgctca	gtgcaaaact	gatgattcta	cttgctgtag	atgaatgggt	aacacgagct	3540
agttaaacag	tgccattggt	ttgccagtga	agcctccaac	cctaagccac	tgggacgggt	3600
gccagagatg	ccagcagcct	ctgtcgccct	tagtcatata	acaaaaatcc	agaccttatc	3660
cacaacccgg	ggcttggaag	ggaagggtatt	ttggaatcac	accctccggt	tatgttgctc	3720
cagtaaaatc	ttgcctggaa	agaggcagtc	ttcttagcat	ggtagagctga	gttcatggct	3780
tttttttgta	gccagtcctg	tccctggcca	tccatgtgat	ggttttggat	ggagttaaag	3840
ttgatgccag	tgggcagtg	atgtggaaag	tatcagagta	agcctctccc	ctccagagcc	3900
ctgagtttct	tggctgcatg	aaggttttct	ttagaatcag	aattgtagcc	agtttctttg	3960
gccagaagga	tgaatacttg	gatattactg	aaagggaggg	gtggagatgg	gtgtggcagt	4020
gtatgggtgtg	tgatttttat	tttcttcttt	ggcatgggg	gccaaggaga	aaggcatgaa	4080
tcttccctgt	caggctctta	cagccacagg	cactgtgtct	actgtctgga	agacatgtcc	4140
ccgtggctgt	ggggccgctg	cttctgttta	aataaaaagt	gcctgg		4186

09031754-101501